26 Septembet 1969

MEMORANDUM

SUBJECT : Possible DDP Use of the Compuscan 370 Optical Character Reader

- the greatest volume of key punching and verifying is accomplished in connection with the GICS, Document/File Control, and subsystems. These three subsystems account for almost two-thirds of the key punching and verifying volume (KPV Volume) noted in the ADP Accounting. Attached is a worksheet showing KPV Volume and percentages of total KPV Volume for axdoxenxofxxhexmajoxx the dozen or so subbystems having the heaviest KPV workload in 1968.
- 3. Attached also are/samples of the input forms used for five of the subsystems. A "Yes" or a "Y" in the leftmost column of the worksheet shows that one or two samplem input forms are attached for the subsystem indicated.
- 4. In the right-hand column of the worksheet I have begun entering the input medium used for the indicated subsystem. I believe that the input medium is punched cards for most of the subsystems, although I do not expect to have confirmed all of them by the time I turn this job over to Anne.
- 5. The prominent exception to the general use of punched cards for input occurs occurs in the case of the portion of the subsystem. SB uses another OCR, the CDC 915, for its input. One of the attached sample input forms is of the type used by SB for this purpose. Note the special type that must be used. The 915 reads only this font, producing magnetic tape as output. In the course of talking to about \$\mathbb{R}\mathbb{X}\
- 6. The Agency has had the 915 for a number of years. Al doesn't recall just how many, but he was been working on programs for it since 1967. The first machine was a very early one, number eleven or so off the assembly line. CDC later replaced the first machine with another that had been de-bugged to some extent. But there have been many problems with a it over the years. Today the machine is working fairly well. In the applications with which he is familiar, there is a rejection rate.

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- 7. One drawback to the 915 is its small CPU, which xis called the CDC 8092 Teleprogrammer, which limits the 915 to reading only. Editing for errors requires a pass of the tape through the 360 before the tape can be used for ZZ input. All has written editing ptograms for this purpose. CDC plans to come out with a new OCR that may be capable of wditing. Exact specifications of the new model are not known to Alled did not have on hand any figures showing to what extent the 915 is currently being used, nor what the overall rejection rate is, but he said that he would get some figures and let us know.
- 8. This superficial exploration into what the 915 can do seemed to me to be in order, since it represents the Agency's only experience to date with OCRs in general, as far as I have been able to ascertain. It gives us something to compare the 370 to.
- 9. Several questions that have occurred to me while thinking about the 370 might be worth studying.

Re OCRs in general:

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a. Are there any models other than the Compuscan 370 and the CDC 915 that are worth our study?

Re the Compuscan 370:

- b. Does the machine ignore the printed headings and other printed entries on the input forms, or can it be programmed to ignore them?
- c. If not, must we revise the forms we are now using? (For the 915, forms with a special type of gray ink must be used; see attached sample.)

Re the 370's requirement for microfilming:

- d. Do any of our customers already microfilm the input forms at any stage in the information flow?
- e. If not, could they keginxxxx modify that flow to delete keypunching and insert micro-filming?
- f. If they did modify the flow in this manner, what would be Approved FBF Relyage 2002/07/15: CIA-RDP80-01794R000100200028-9

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Re the Agency-leased CDC 915:

- g. Can a larger share of the DDP workload be xx adapted to the 915 with a comparatively greater saving that that which could be effected with the 370?
- h. How will the next model of the CDC OCR (the multi-font reading OCR) affect the answer to \underline{g} ?

Miscellaneous:

- i. What amount of input to the key-punch operation is now in handwritten form, as the input is, for example?
- 10. The foregoing paragraphs synthesize all of the results of my inquiry to date.



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